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**Biology Complex Inheritance & Human Heredity (Chapter 11 Outline)**

*Vocabulary*: Define in your own words

Pedigree-

Carrier-

Incomplete dominance-

Codominance-

Multiple alleles-

Epistasis-

Sex chromosome-

Autosome-

Sex-linked trait-

Polygenic trait-

Karyotype-

Telomere-

Nondisjunction-

Briefly describe the following concepts:

What are some examples of dominant and recessive genetic disorders? Provide a detailed description of two dominant and two recessive disorders. Explain the cause and effect of each genetic disorder. (8 pts)

How can sex-linked inheritance patterns be analyzed? Explain. Also, provide a detailed description of two sex-linked genetic disorders. Include a discussion on the cause and effect of each disorder. (5 pts)

How can the environment influence the phenotype of an organism? Explain. (2 pts)

How are karyotypes used to study genetic disorders? Explain. (2 pts)

Explain the benefits and risks of the three common types of diagnostic fetal testing. For each test, discuss if the benefits outweigh the risks associated with the procedure. (6 pts)

**Write three things that you learned about Complex Inheritance & Human Heredity***:*

*Make sure to write a full sentence.*

***Example sentence****: I learned that down-syndrome is a genetic disorder that occurs due to nondisjunction; it is oftentimes called trisomy 21.*

*1.*

*2.*

*3.*